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SEARCH REQUEST FORM
Scientific and Technical Information Center

EIC 2600

Requester's Full Name DAC V. HA Examiner # 76772 Date 12/14/06
Art Unit 2611 Phone Number 28040 Serial Number 6298092
Office Location JEFF 2485 Format preferred (circle) PAPER EMAIL BOTH

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Title of the Invention Method of Controlling Communication Parameters of
Inventor(s) Heath, Robert W. JR. wireless systems

Earliest Priority date to be used 12/15/1999

Patent #
6,298,092

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*1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image***Patent Number :** US6298092 B1 20011002 [US6298092]**Title :**

(B1) Methods of controlling communication parameters of wireless systems

Patent Assignee :

(B1) IOSPAN WIRELESS INC (US)

Patent Assignee :

Iospan Wireless, Inc., San Jose CA [US]

Inventor(s) :

(B1) HEATH JR ROBERT W (US); SEBASTIAN PEROOK K (US); PAULRAJ AROGYASWAMI J (US)

Application Nbr :

US58594800 20000602 [2000US-0585948]

Filing Details :

C.I.P. of US464372 19991215 [1999US-0464372]

Priority Details :

US46437299 19991215 [1999US-0464372]

US58594800 20000602 [2000US-0585948]

Intl Patent Class :

(B1) H04B-007/06 H04B-007/08

IPC Advanced All :

H01Q-001/24 [2006-01 A - I R M EP]; H01Q-003/26 [2006-01 A - I R M EP]; H04B-007/06 [2006-01 A - I R M EP]; H04B-007/08 [2006-01 A - I R M EP]; H04L-001/00 [2006-01 A - I R M EP]; H04L-001/06 [2006-01 A - I R M EP]

IPC Core All :

H01Q-001/24 [2006 C - I R M EP]; H01Q-003/26 [2006 C - I R M EP]; H04B-007/04 [2006 C - I R M EP]; H04B-007/08 [2006 C - I R M EP]; H04L-001/00 [2006 C - I R M EP]; H04L-001/02 [2006 C - I R M EP]

EPO ECLA Class :H01Q-001/24A3
H01Q-003/26C
H04B-007/06C2C
H04B-007/06M
H04B-007/08C4J3
H04B-007/08S
H04L-001/00A
H04L-001/00A1M
H04L-001/00A5
H04L-001/00A9B
H04L-001/06
H04L-001/06T**EPO ICO Class :**

T04B-007/06C2F

US Patent Class :

ORIGINAL (O) : 375267000; CROSS-REFERENCE (X) : 375299000 375347000
455069000 455101000 455102000 455272000

Document Type :

Corresponding document

Citations :

US5815488; US5832044; US5933421; US6058105; US6064662; US6097771;
US6144711; US6175550; US6198775; EP0951091 A2; WO9809381; WO9809385
Paulraj, A., Taxonomy of space-time processing for wireless networks, IEE Proc--Radar
Sonar Navig., vol. 145, No. 1, Feb. 1998.

Publication Stage :

(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

Abstract :


The present invention provides a method for controlling a communication parameter in a channel through which data is transmitted between a transmit unit with M transmit antennas and a receive unit with N receive antennas by selecting from among proposed mapping schemes an applied mapping scheme according to which the data is converted into symbols and assigned to transmit signals TSp, p=1 . . . M, which are transmitted from the M transmit antennas. The selection of the mapping scheme is based on a metric; in one embodiment the metric is a minimum Euclidean distance dmin,rx of the symbols when received, in another embodiment the metric is a probability of error P(e) in the symbol when received. The method can be employed in communication systems using multi-antenna transmit and receive units of various types including wireless systems, e.g., cellular communication systems, using multiple access techniques such as TDMA, FDMA, CDMA and OFDMA.

Update Code :

2001-41

1 / 1 LGST - ©EPO

Patent Number :

 US6298092 B1 20011002 [US6298092]

Application Number :

US58594800 20000602 [2000US-0585948]

Action Taken :

20001003 US/AS-A

ASSIGNMENT

OWNER: GIGABIT WIRELESS, INC. 3099 NORTH 1ST STREET SAN J
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:HEATH, ROBERT W.,
JR.;SEBASTIAN, PEROOR K.;PAULRAJ, AROGYASWAMI
J.;REEL/FRAME:011216/0241;SIGNING DATES FROM 20000926 TO 20000927

20001207 US/AS-A

ASSIGNMENT

OWNER: IOSPAN WIRELESS, INC. 3099 NORTH 1ST STREET SAN JO; EFFECTIVE
DATE: 19981218

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:GIGABIT WIRELESS,
INC.;REEL/FRAME:011336/0876


20040106 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031002

Update Code :

2004-31

1 / 1 CRXX - ©CLAIMS/RRX

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 6,298,092 A 20011002 [US6298092]

Patent Assignee :

Iospan Wireless Inc

Actions :

20031002 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040106
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EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3634

Reissue Patent Number:

Search statement 4

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6298092

LEXIS-NEXIS PATENT;ALL FILE

<=1> Get Drawing Sheet 1 of 6
<=15> Link to Claims Section

October 2, 2001

Methods of controlling communication parameters of wireless systems.

REISSUE: October 2, 2003 - Reissue Application filed Ex. Gp.: 3634; Re. S.N. 10/678,053 (O.G. January 6, 2004)

INVENTOR: Heath, Jr., Robert W. - Hayward, California, United States (US); Sebastian, Peroor K. - Mountain View, California, United States (US); Paulraj, Arogyaswami J. - Stanford, California, United States (US)

APPL-NO: 585948 (09)

FILED-DATE: June 2, 2000

GRANTED-DATE: October 2, 2001

ASSIGNEE-PRE-ISSUE: October 3, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., GIGABIT WIRELESS, INC. 3099 NORTH 1ST STREET SAN JOSE, CALIFORNIA, 95134, Reel and Frame Number: 011216/0241
December 7, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., IOSPAN WIRELESS, INC. 3099 NORTH 1ST STREET SAN JOSE, CALIFORNIA, 95134, Reel and Frame Number: 011336/0876

ASSIGNEE-AT-ISSUE: Iospan Wireless, Inc., San Jose, California, United States (US), United States company or corporation (02)

LEGAL-REP: Lumen Intellectual Property Services

PUB-TYPE: October 2, 2001 - Utility Patent having no previously published pre-grant publication (B1)

PUB-COUNTRY: United States (US)

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Continuation-in-part of Ser. No. 09/464372, December 15, 1999, PENDING

US-MAIN-CL: 375#267

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